

Phase	Composition, wt Ni	Pearson symbol	Space group
(Mg)	0	<i>hP2</i>	<i>P6₃/mmc</i>
Mg ₂ Ni	54.7	<i>hP18</i>	<i>P6₂22</i>
MgNi ₂	82.9	<i>hP24</i>	<i>P6₃/mmc</i>
(Ni)	100	<i>cF4</i>	<i>Fm$\bar{3}$m</i>

Mg-Ni

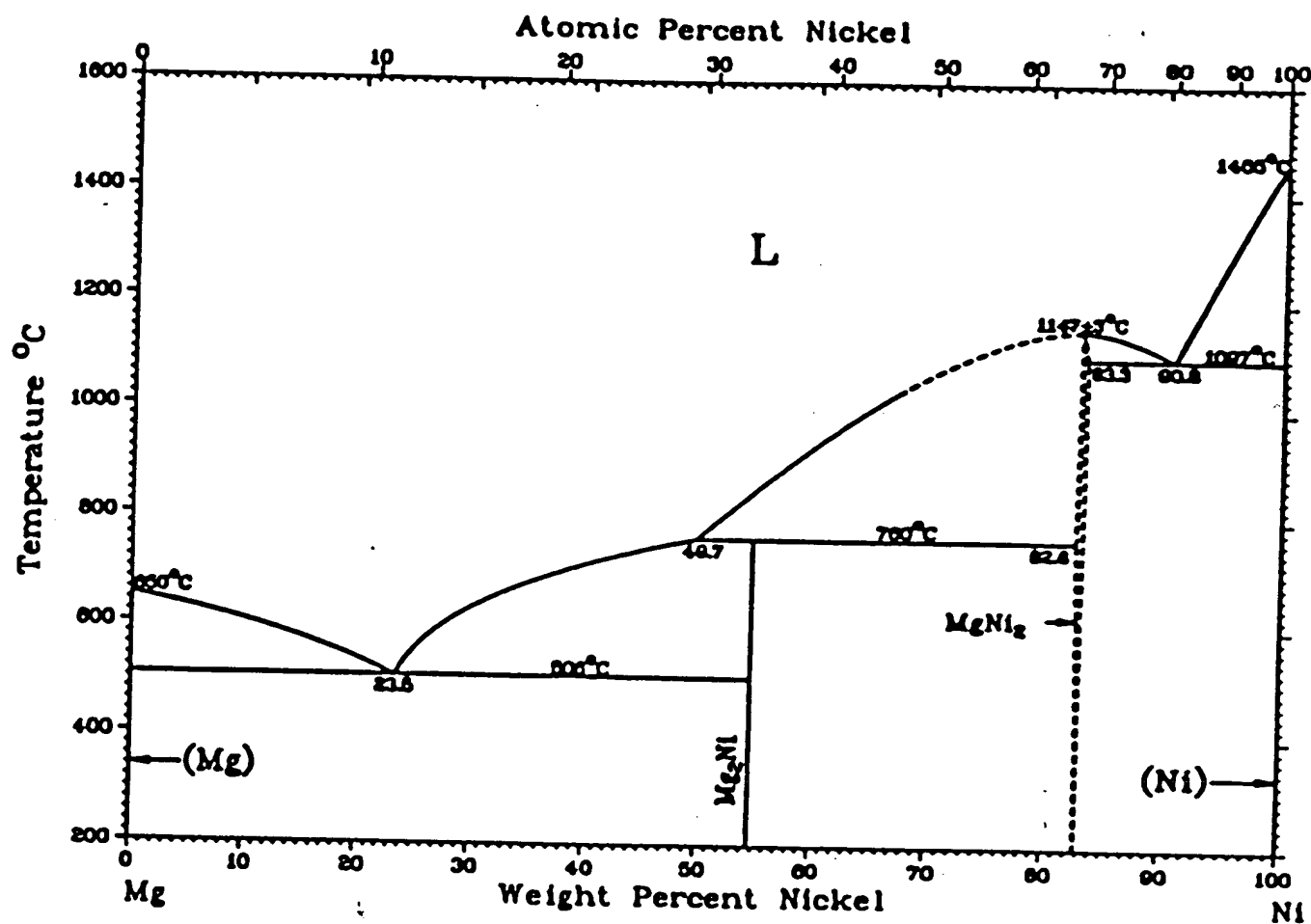


FIGURE 2

Phase	Composition, wt% Mn	Pearson symbol	Space group
(Mg)	0 to 2.2	<i>hP2</i>	<i>P6₃/mmc</i>
(α Mn)	100	<i>cI58</i>	<i>I$\bar{4}$3m</i>
(β Mn)	100	<i>cP20</i>	<i>P4₁32</i>
(γ Mn)	100	<i>cF4</i>	<i>Fm$\bar{3}$m</i>
(δ Mn)	100	<i>cI2</i>	<i>Im$\bar{3}$m</i>

Mg-Mn

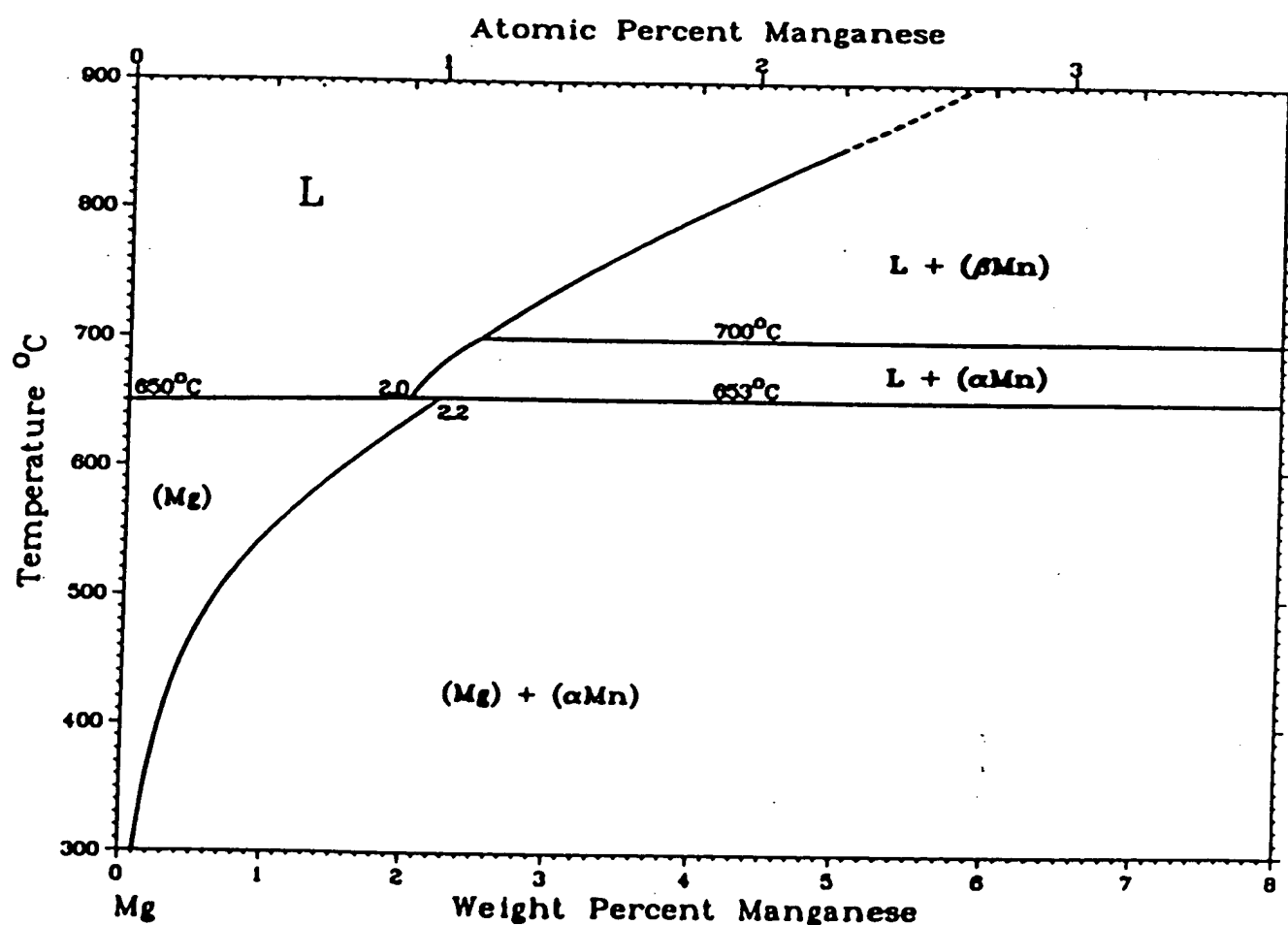


FIGURE 3

Phase	Composition, wt % Si	Pearson symb l	Space group
(Mg)	~0	<i>hP2</i>	<i>P6₃/mmc</i>
Mg ₂ Si	36.61	<i>cF12</i>	<i>Fm$\bar{3}$m</i>
(Si)	~100	<i>cF8</i>	<i>Fd$\bar{3}$m</i>
High-pressure phases			
Mg ₂ Si(a)	36.61
SiII	100

(a) Above ~2.5 GPa and 900 °C, it forms a hexagonal structure.

Mg-Si

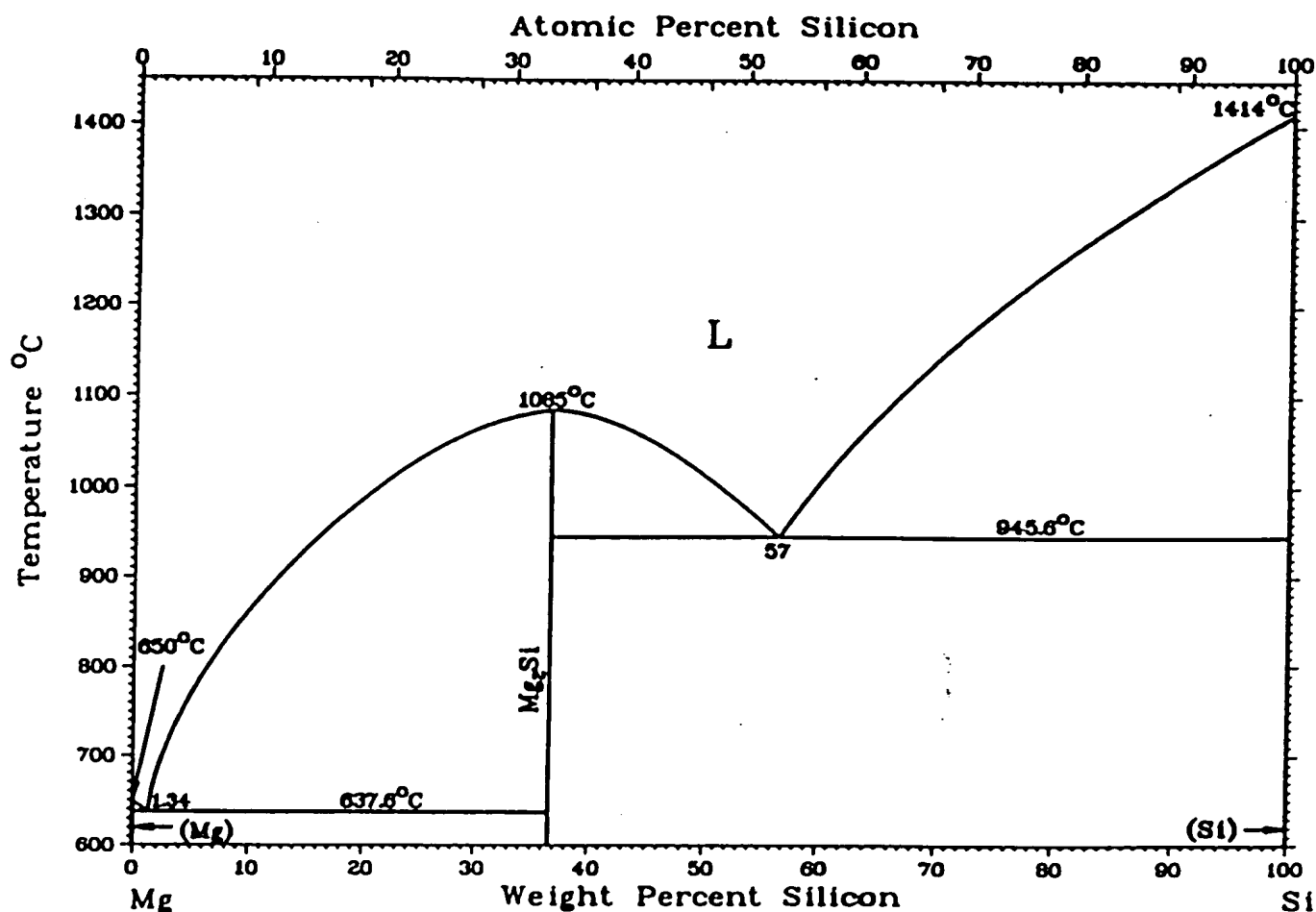


FIGURE 4

Cr-Fe

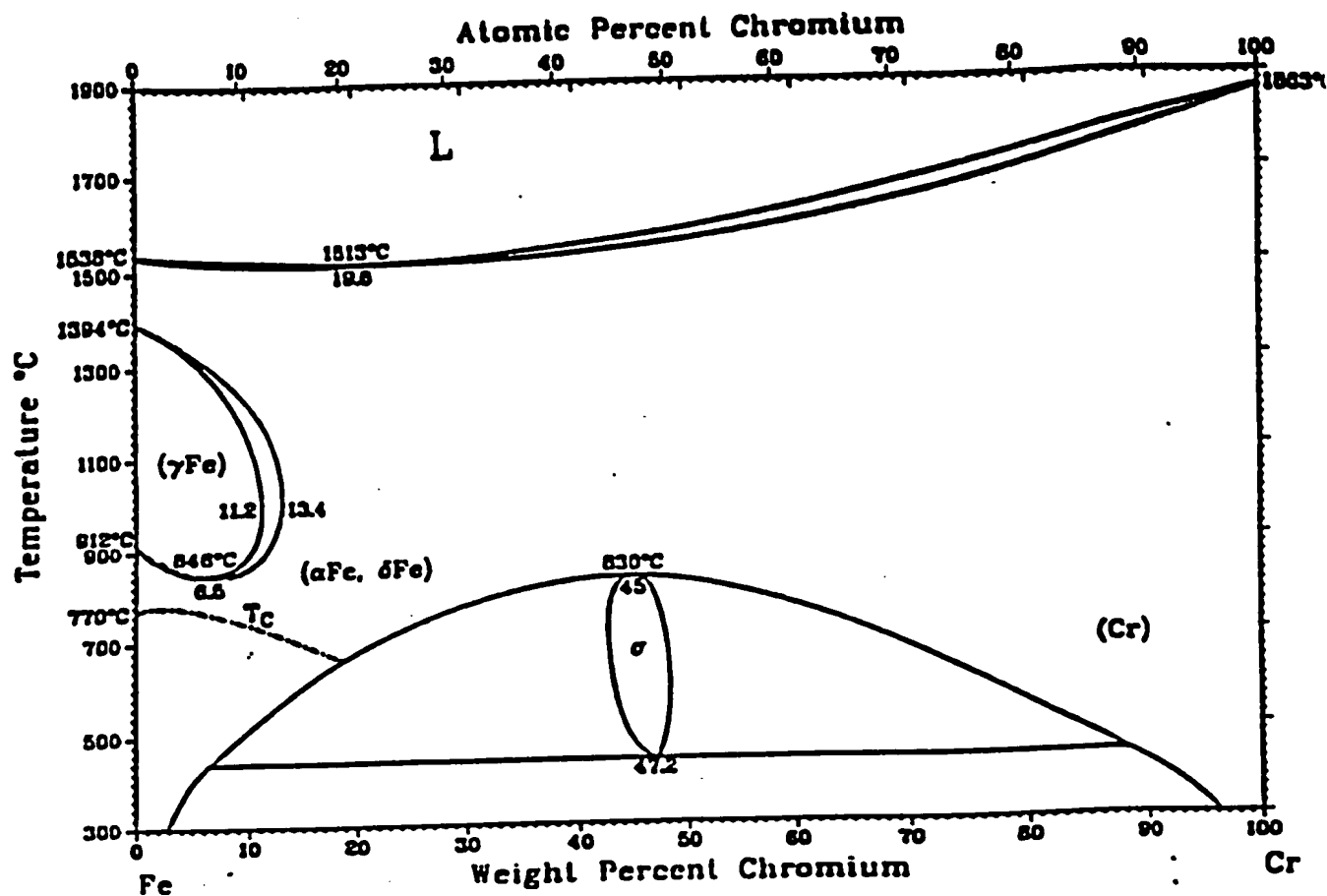
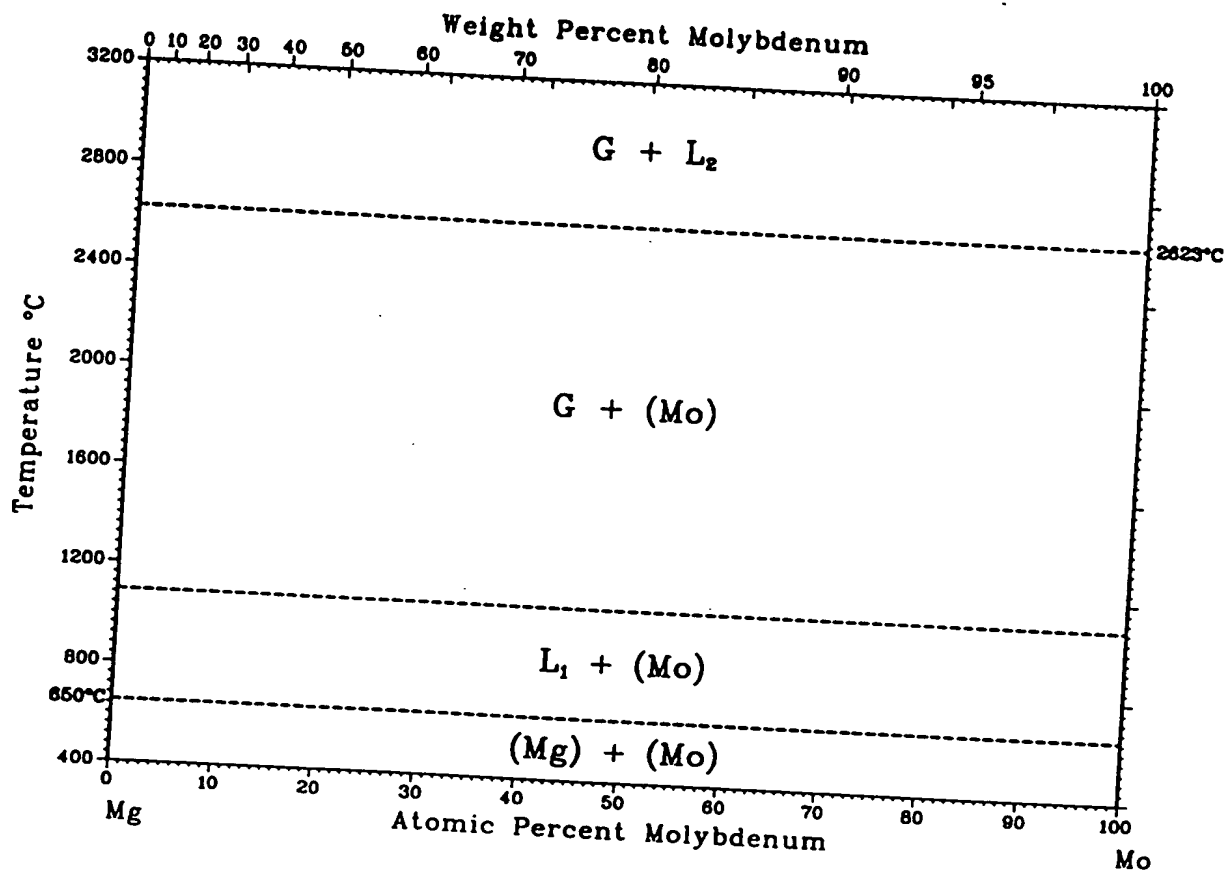
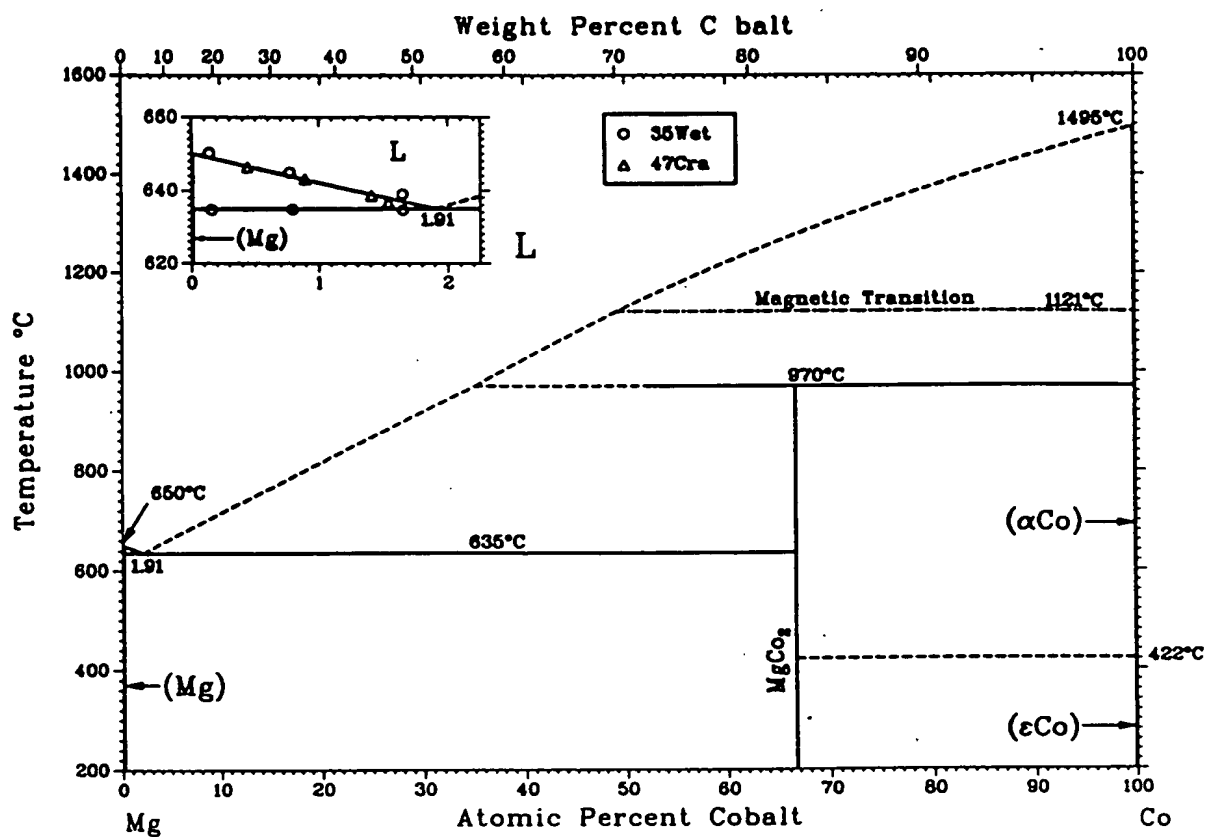


FIGURE 5



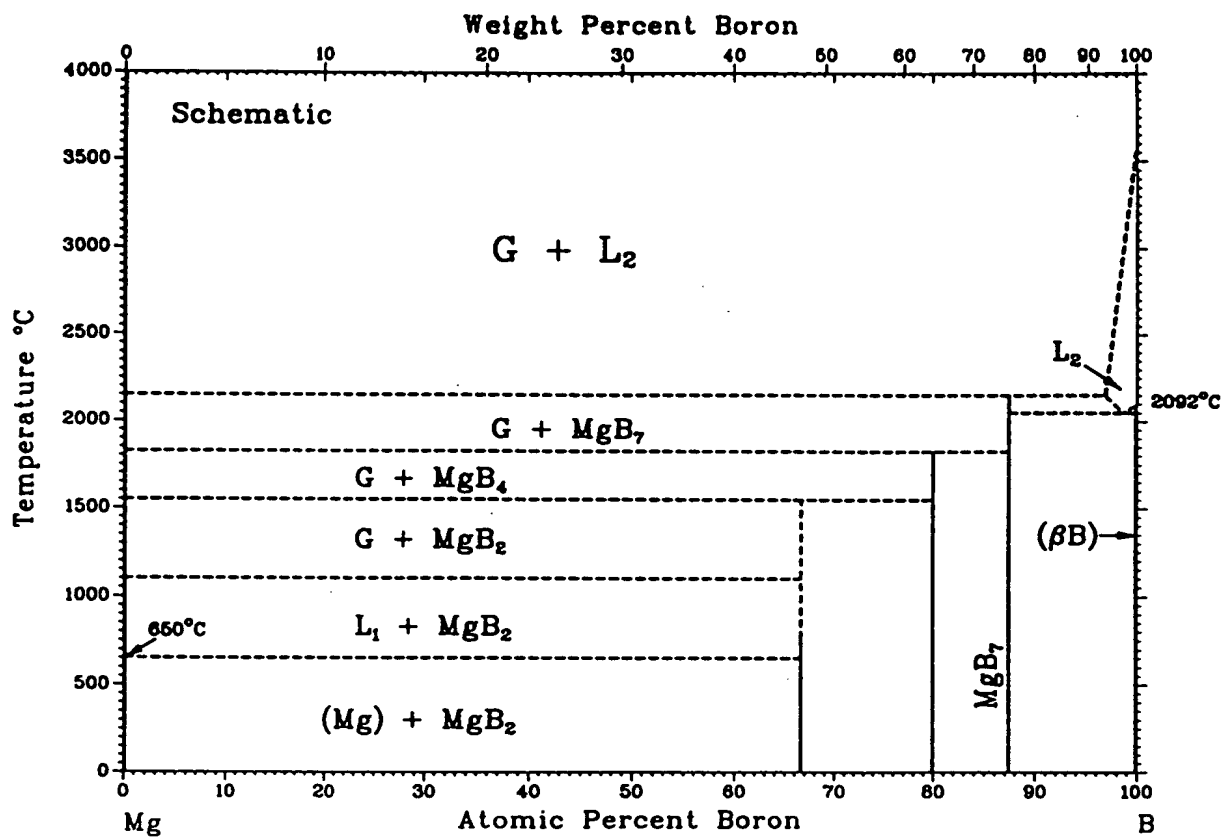
A.A. Nayeb-Hashemi and J.B. Clark, 1988.

FIG. 6



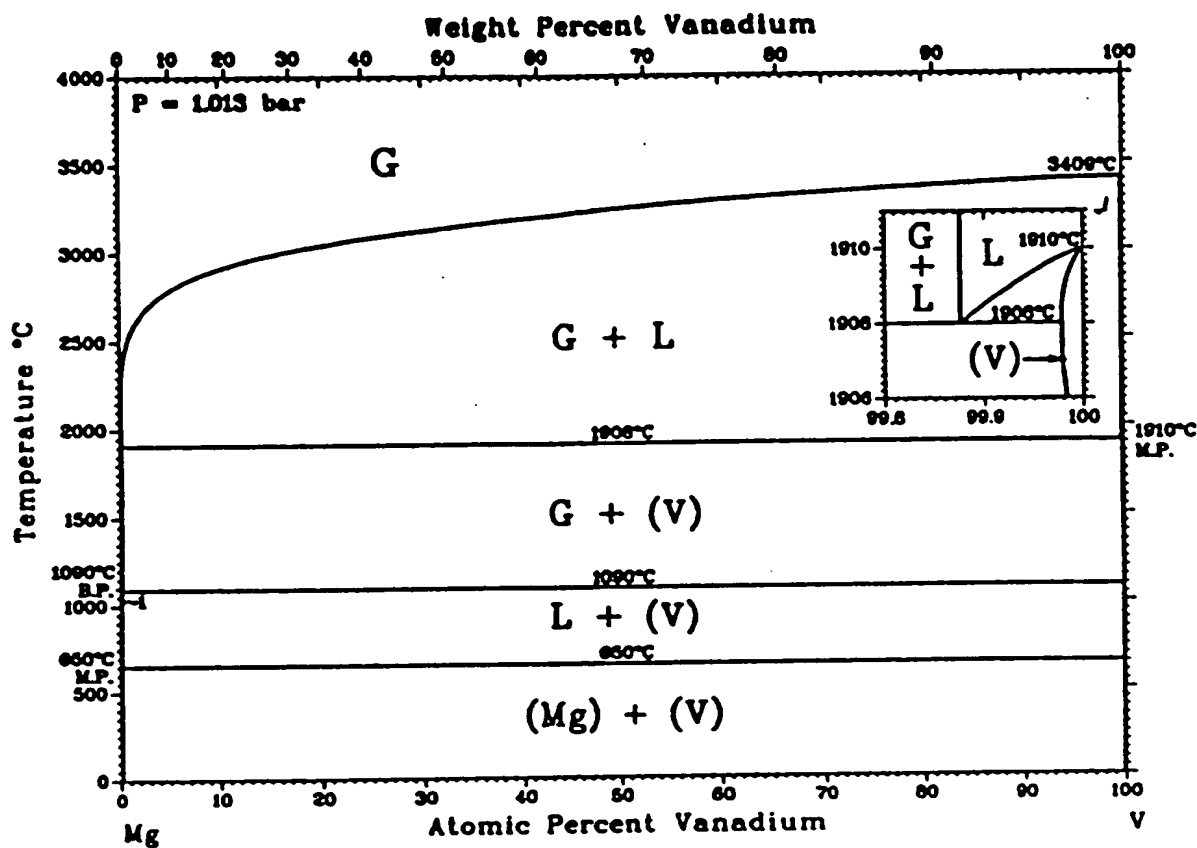
A.A. Nayeb-Hashemi and J.B. Clark, 1988.

FIG. 7



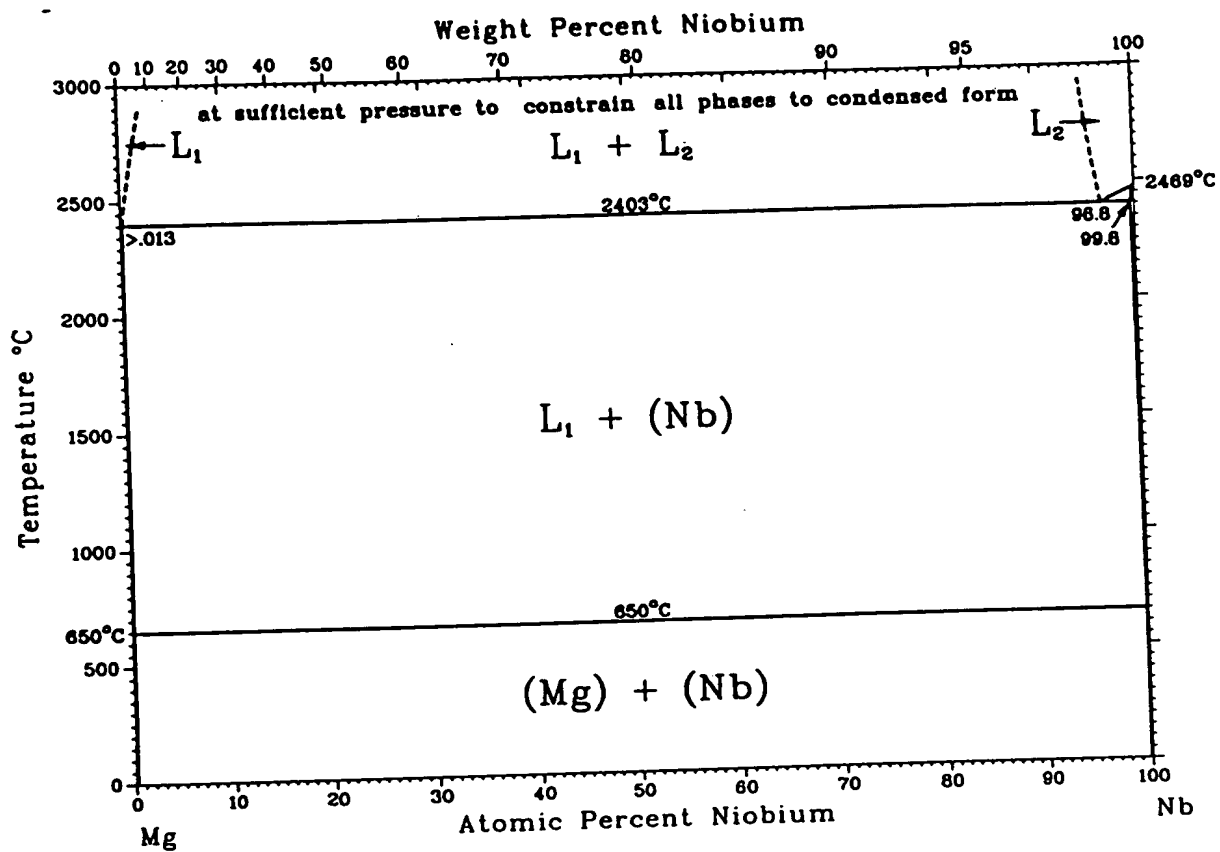
A.A. Nayeb-Hashemi and J.B. Clark, 1988.

FIG. 8



J.F. Smith and K.J. Lee, 1988.

FIG. 9



J.F. Smith, 1988

FIG. 10

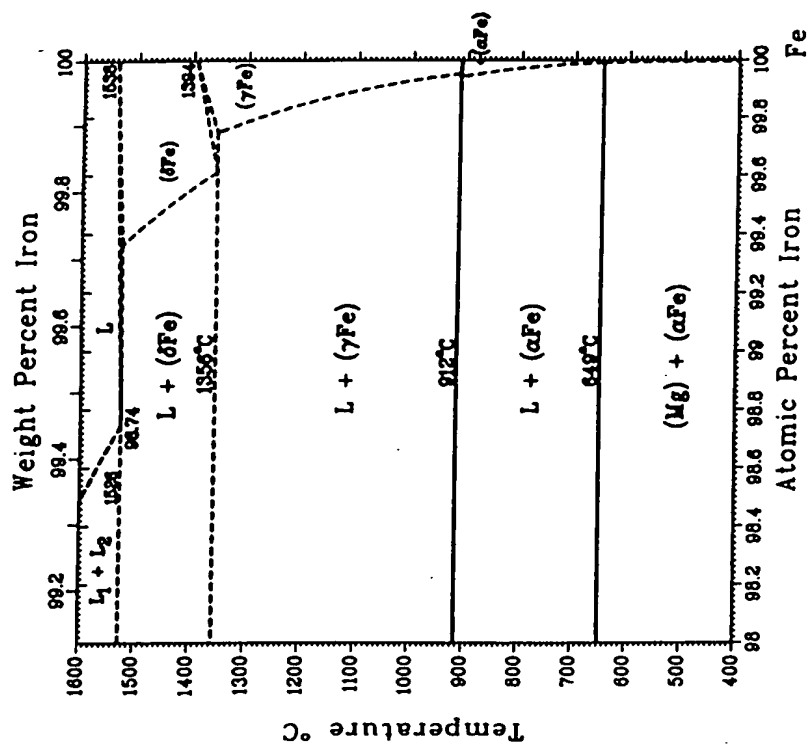


FIG. 11